

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
24 February 2005 (24.02.2005)

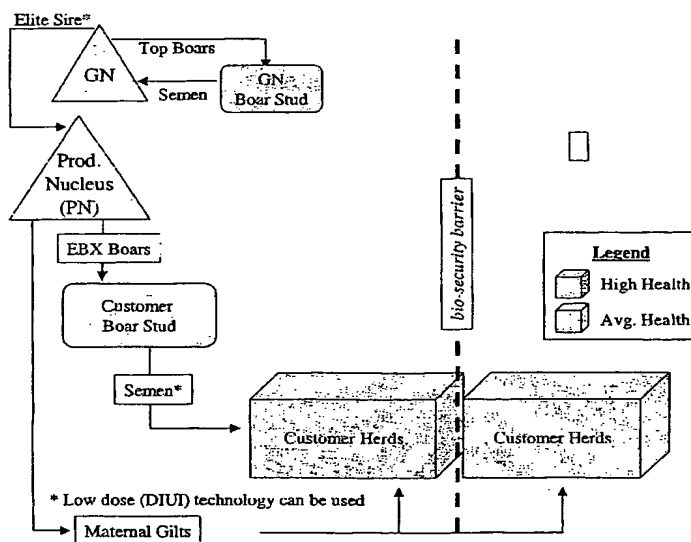
PCT

(10) International Publication Number
WO 2005/015989 A1

- (51) International Patent Classification⁷: **A01K 67/02**
- (21) International Application Number:
PCT/US2004/024168
- (22) International Filing Date: 26 July 2004 (26.07.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/492,395 4 August 2003 (04.08.2003) US
- (71) Applicant (for all designated States except US): **MON-SANTO TECHNOLOGY LLC** [US/US]; 800 North Lindbergh Blvd., St. Louis, MO 63137 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **BUTTRAM, Samuel, T.** [US/US]; 417 Morning Oaks Court, Ellisville, MO 63021 (US). **LOHUIS, Michael, M.** [CA/US]; 12959 Beaver Dam Road, Des Peres, MO 63131 (US). **GU, Youping** [US/US]; 14162 Ladue Road, Chesterfield, MO 63017 (US). **WAGNER, Christina, M.** [US/US]; 6881 Country Estates, Columbia, IL 62236 (US).
- (74) Agent: **KAMMERER, Patricia, A.**; Howrey Simon Arnold & White, LLP, 2941 Fairview Park Drive, Box 7, Falls Church, VA 22042 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: METHOD FOR GENETIC IMPROVEMENT OF TERMINAL BOARS



(57) Abstract: The methods provided herein relate to swine production. Specifically the instant invention provides methods for the production of terminal parent animals (i.e. terminal sires and terminal dams) for use in swine production herds. Also provided are methods for quickly and efficiently introducing and/or fixing one or more desirable traits or alleles in a swine herd. Alternatively, the present methods may be employed to eliminate a particular undesirable trait or gene. The invention also provides for herds that have been developed using any of the methods described herein. The invention also provides for the use of embryo transfer, including marker-assisted embryo transfer to facilitate the transfer of genetic material, particularly when it is desirable to maintain the specific-pathogen free status of a herd.



Published:

— *with international search report*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.